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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
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26304	7590 10/20/2004		EXAM	INER	
KATTEN MUCHIN ZAVIS ROSENMAN 575 MADISON AVENUE			FERRIS, DERRICK W		
NEW YORK, NY 10022-2585			ART UNIT	PAPER NUMBER	
			2663		
			DATE MAILED: 10/20/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

	c/X	
	Application No.	Applicant(s)
	09/801,557 KAKEMIZU E	
Office Action Summary	Examiner	Art Unit
	Derrick W. Ferris	2663
The MAILING DATE of this communication		

THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on <u>08 March 2001</u>. 2a) This action is **FINAL**. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. **Disposition of Claims** 4) Claim(s) <u>1-25</u> is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) 19-25 is/are allowed. 6) Claim(s) <u>1-7 and 9-15</u> is/are rejected. 7) Claim(s) 8 and 16-18 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. **Application Papers** 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 08 March 2001 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) ☐ Some * c) ☐ None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

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1) M	Notice	of Ref	erences	Cited	(PTO-892)	
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4)	\square	Interview Summary (PTO-413)
		Paper No(s)/Mail Date.

5) Notice of Informal Patent Application (PTO-152)

6)	Other:
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²⁾ Notice of Draftsperson's Patent Drawing Review (PTO-948)

³⁾ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5/18/2001.

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1-5, 13-15 and 16-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The term "the other terminal" at claim 1, line 14 lacks proper antecedent basis. Claims 2-5 are rejected for depending on a rejected parent claim. As to claim 13, see similar rejection where "the other terminal" lacks antecedent basis at line 25. Claims 14-15 are rejected for depending on a rejected parent claim. Claim 16 is rejected for lacking proper antecedent basis with respect to "the VPN information" recited e.g., at line 18. Claims 17-18 are rejected for depending on a rejected parent claim.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 2, 4, and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over "Mobile IP and Security Issue: An Overview" to *Perkins* in view of U.S. Patent No. 6,728,536 B1 to *Basilier et al.* ("Basilier").

In making a proper obviousness rejection under MPEP 706.02(j), the examiner will address the following four steps:

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a) the relevant teachings of the prior art relied upon, preferably with reference to the relevant column or page number(s) and line numbers where appropriate;

- b) the difference of differences in the claim(s) over the applied cited references;
- c) the proposed modification of the applied reference(s) necessary to arrive at the claimed subject matter; and
- d) an explanation why one skilled in the art at the time of the invention was made would have been motivated to make the proposed modification.

As such to **claim 1**, for step (a) *Perkins* discloses a server apparatus as AAA-H, see e.g., figure 3. *Perkins* further discloses a distribution means that distributes the information to construct a safe communication path between the terminal within an external network of a move destination and the other terminal with whom the terminal communicates. In particular, "the terminal" is MN and "other terminal" is HA. As such, see e.g., section 5 on pages 143-144 where the AAAH first makes local arrangements with the HA (i.e., a predetermined position registration message" and second sends a registration response back to the AAAL (i.e., an authentication response message").

For step (b) *Perkins* may be silent or deficient to the further limitation of using a memory means that stores information for constructing a safe communication path within an IP network in relation to the terminal. In particular, examiner notes that limitation may be taught since the AAAH obtains both key information (see e.g., section 5.2 on page 145) and allocates both an HA and an IP address (see e.g., section 5.1 on page 145)

Basilier teaches the further recited limitation above at e.g., the background in column 1, lines 37-49.

For step (c), the proposed modification of the above-applied reference(s) necessary to arrive at the claimed subject matter would be to modify *Perkins* by clarifying that the information is stored in a database at the AAAH.

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In order to establish a prima facie case of obviousness for step (d), three basic criteria must be met. The three criteria according to MPEP 706.02(j) are as follows:

First there must be some suggestion or modification, either in the reference(s) themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine the reference teachings. Second, there must be a reasonable expectation of success. Finally, the prior art reference (or references when combined) must teach or suggest all the claim limitations.

As such, for step (d) examiner notes that it would have been obvious to one skilled in the art prior to applicant's invention to include the further limitation of using a memory means that stores information for constructing a safe communication path within an IP network in relation to the terminal. In particular, the motivation for modifying the reference or to combine the reference teachings would be to maintain state information for subscribers. In particular, *Basilier* cures the above-cited deficiency by providing a motivation found at e.g., column 1, lines 37-49. Second, there would be a reasonable expectation of success since both references teach AAAH. Thus the references either in singular or in combination teach the above claim limitation(s).

As to claim 2, the registration response message transfer the information back to the AAAL.

As to **claims 4-5**, see similar rejection to claim 2 and section 5.3 starting on page 146.

5. Claims 3, 6, 7, and 9-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over "Mobile IP and Security Issue: An Overview" to *Perkins* in view of U.S. Patent No. 6,728,536 B1 to *Basilier et al.* ("Basilier") in further view of "Mobile IP Authentication, Authorization, and Accounting Requirements" to Glass et al. ("Glass").

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As to claim 3, Basilier and Perkins discloses AAA and security but do not specifically teach IPSec (e.g., a VPN). Glass teaches IPSec e.g., in Section 3.1 at page 7. Examiner proposes to modify Basilier and Perkins to clarify that IPSec is used. Thus examiner notes that it would have been obvious to one skilled in the art to use IPSec since keys are exchanged. Glass further provides a motivation since any key distribution protocol can be used, see e.g., Section 5.0 on page 11. Examiner notes a further reasonable expectation of success since all three references uses AAAH.

As to **claim 6**, see similar rejections to claims 1 and 3. In particular, a mobile terminal is MN, a home authentication server is AAAH, and a network apparatus is either AAAL or Attendant A.

As to claim 7, every time a mobile roams a registration request is sent again.

As to claim 9, the Attendant A handles QoS as well as maintains state of a connection (i.e., VPN information is cached), see e.g., middle of page 135.

As to **claim 10**, see similar rejection to claim 1 where the external authentication server is either the AAAL or Attendant A. In particular, see e.g., Section 5.3 starting on page 146.

As to claims 11-12, see similar rejection to claim 3.

As to claim 13, see similar rejection to claim 6.

As to claims 14-15, see similar rejection to claim 3.

Allowable Subject Matter

6. Claims 19-25 are allowable.

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7. Claim 8 is objected to as being dependent upon a rejected base claim, but would be

allowable if rewritten in independent form including all of the limitations of the base claim and

any intervening claims.

8. Claims 16-18 would be allowable if rewritten or amended to overcome the rejection(s)

under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Derrick W. Ferris whose telephone number is (571) 272-3123.

The examiner can normally be reached on M-F 9 A.M. - 4:30 P.M. E.S.T.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Chau Nguyen can be reached on (571) 272-3126. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Derrick W. Ferris Examiner

Examiner

Art Unit 2663

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